Bureau of Land Management



Amarillo Field Office Helium Operations

Statistical Report for July - 2004





Distribution:

Fluid Minerals Group Manager, Washington Office NMSO, New Mexico State Director NMSO, Associate State Director NMSO, Petroleum Engineer Field Manager, Amarillo Field Office Assistant Field Managers (3)

Team Leaders

- -Federal Leased Lands
- -Resources Evaluation & Gas Analysis
- -Natural Gas Engineering

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Amarillo, Texas

Issued: September 2, 2004

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Approved for distribution: Nelson R. Bullard Date: 10/06/2004

Table 1 - Summary	of Heliu	m Oper	ations						Jul	y - 2004
In Kind Sales	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind	Charges E	3illed (\$)**
Total month	0	0	0	0	0	0	0	0		\$
Total FYTD	77,824	5,334	0	18,897	22,113	32,473	156,642	154,217		\$8,250,89
Total CYTD	50,218	3,808	0	9,573	17,972	23,373	104,944	103,319		\$5,579,06
In Kind Transfers							Month	FYTD	CYTD	Cumulativ
Transferred							116	147,917	101,355	1,307,855
Volume outstanding							52,862			
Open Market Sales				Award	Volume	Outst	anding	Sales	Charges E	3illed (\$)**
Total month					0		0	0	J	\$0
Total FYTD					675,600		168,900	506,700		\$27,361,800
Total CYTD					0			487,800		\$26,341,200
Open Market Transfers							Month	FYTD	CYTD	Cumulativ
Transferred							0	916,700	506,700	2,146,700
Volume outstanding							0			
Natural Gas/Liquids Sales	;	Natural	Gas (Mcf)	NGL	s (gal)	Deca	therms	\$/unit	Charges E	3illed (\$)**
Total month			271,209		83,832		307,945	\$5.5644	<u> </u>	\$1,706,155
Total FYTD			2,311,216		535,779		2,611,716	\$5.1639		\$13,408,324
Total CYTD			1,817,404		486,569		2,037,986	\$5.3268		\$10,790,948
					E) (===		E) (E5)	E) (===	0) (75	0
	I I a Comme	Month		Month	FYTD	Month	FYTD	FYTD	CYTD	Cumulative
Purchased Helium	Helium	Helium	Holium		Purity		w 50%	С	ontained Heliu	um
Total purchased	Mixture	Percent	Helium	не	lium 	пе	lium			32,176,145
Helium transferred			116					1,064,617	608,055	5,439,895
Purchased helium in storage			110					1,004,017	000,000	26,736,250
										20,100,200
Private Plant Activity						(10)	/			
Accepted in storage system	67,461	69.8%	47,086	763	11,472	(48)	(2,265)	608,518	410,073	8,412,745
Redelivered from storage system	(296,711)	75.1%	(222,754)	0	0	24	551	(1,670,944)	(1,196,168)	· · · · · ·
Total apparent crude produced^	165,865	72.3%	119,937					1,325,226	911,471	8,502,467
Total apparent crude refined^	(395,115)	74.8%	(295,605)					(2,388,600)	(1,698,513)	(13,928,955
			Metered Gas			Transfo	rred Gas	Stored	Charge	o Dillod
	Gross Gas	Helium	Metered Gas	Helium			lium	Helium	(\$)	5 Dilleu)**
Storage Contract Activity		nth	FYTD	CYTD	Cumulative	Month	Cumulative	EOM	Month	FYTD
Crude Acquired	67,370	47,038	606,253	408,652	25,781,261	49,455	28,777,646	20:::		
Crude Disposed	296,711	222,730	1,670,393	1,195,622	25,108,151	49,339	25,965,504		\$308,540	Storage Fee
Grade-A Rdlvrd	0	0	0	0	1,478,718	0	0		\$145,479	RMF Fees
Net/Balance	(229,341)	(175,692)	(1,064,140)	(786,970)	(805,608)	116	2,812,142	2,006,534	\$454,020	\$3,792,635
Bush Dome Reservoir Op	erations		Mor	nth	Fisca	l Year	Since S			nce
Consorvation gases from	all course	•	Cross	Net	Cross	Net	Cross		Gross	iscovery Net
Conservation gases from In underground storage, beg. of		5	Gross 40,383,148		Gross 41,328,824		Gross 490,620	Net 490,620	0	
Net Activity	л репоц		(234,503)			(850,801)	39,658,025	28,433,724	40,148,645	28,924,344
Total in underground storage			40,148,645		(1,180,179) 40,148,645	28,924,344	40,148,645	28,924,344	40,148,645	28,924,344
Native Gas			10,110,010	20,021,011	10,110,010	20,021,011	10,110,010	20,021,011	10,110,010	20,021,011
F			202,733,459		206,235,982		265,724,755		318,727,000	
Net Activity			(414,525)		(3,917,047)		(63,405,820)		(116,408,065)	
			202,318,935		202,318,935		202,318,935		202,318,935	
Native Gas plus Conserva	ation Gaso	•			, , -,		,		,	
Total gases in place, beg. of pe			243,116,607		247,564,806		266,215,375		318,727,000	
Net Activity	J1100		(649,028)		(5,097,226)		(23,747,796)		(76,259,421)	
Total gases in place, end of mo	onth		242,467,579		242,467,579		242,467,579		242,467,579	
			, .5., ,5. 0		:=, :3:,0:0		, ,		, . 5. , 5. 0	
Helium Resources Evalua		lde			Month		FYTD			

Helium Enrichment Unit Operations	Month			FYTD			Cumulative		
	Helium-Gas	Helium		Helium-Gas	Helium		Helium-Gas	Helium	
	Mixture	Percent	Helium	Mixture	Percent	Helium	Mixture	Percent	Helium
Gas Processed									
Plant feed	614,998	25.7%	157,748	4,810,029	19.9%	957,761	7,571,743	17.3%	1,310,624
Helium product	196,802	79.1%	155,767	1,189,860	77.7%	924,600	1,616,077	77.2%	1,247,120
Residue natural gas	277,546	0.1%	230	2,312,842	0.0%	654	3,842,487	0.0%	664
Vent, flare & plant losses	129,688	1.3%	1,750	1,285,156	2.5%	32,711	2,410,903	2.6%	63,044
Helium recovery efficiency			98.9%			96.6%			95.2%

35

Submitted

\$643,191

Received

0

\$6,501,184

Analyzed

81

Revenue Collected from Federal Lease Holds

Helium Sample Collection Report for month

^{*} Volumes in Mcf at 14.7 psia & 70°F; all other volumes in 14.65 psia & 60°F

[^] Other sources of helium are accessed but data are not available

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$)**
In Kind Heliu	m	,	,						3 (.,
Aeriform, Contrac		101							(billed quarterly)
Month									
FYTD AGA Gas, Inc., Co	entract no IN	C08-0102							
Month	Jilliact IIO. IIV	C90-0102							
FYTD									
AirGas, Inc., Cont	tract no. INC9	8-0103							
Month FYTD									
Air Liquide Ameri	ica, L.P., Cont	ract no. INC98	-0104					<i></i>	
Month FYTD									
Air Products, L.P.	Contract no	INC98-0105							7
Month	-, Contract no							7/ // /	
FYTD									
BOC Gases, Cont	tract no. INC9	8-0106						\	
FYTD									
Corp Brothers, In	c., Contract n	o. INC98-0107							
Month FYTD					\Diamond		17/		
FIBA Technologie	es, Inc., Contr	act no. INC98-	0108		$\overline{}$	$\overline{}$			
Month									
FYTD	an 8 Cummbu C	Camtract r	- INCOS (2400	\sim				
General Air Service Month	ce & Supply C	o., Contract n	0. INC98-C	7109	\rightarrow				
FYTD						>			
Jack B. Kelley Co	., Contract no	o. INC98-0110			7				
Month FYTD)				
Portland Welding	Supply, Cont	tract no. INC98	-0111_	$\overline{}$					
Month									
FYTD Praxair, Inc., Con	tract no INCO	18-0112)—					
Month	liact no. mos	0-0112							
FYTD		$\longrightarrow \bigwedge$							
United States We	Iding, Inc., Co	ontract	98-0113						
Month FYTD									
Tri-Gas, Inc., Con	trag 10. INC	ه-0114							
Month FYTD									
Messer Grieshein	n Ind.	ct no. INC00-0	115						
Month	1								
FYTD									
Total month	0	0	0	0	0	0	0	0	\$01
Total FYTD	77,824	5,334	0	18,897	22,113	32,473	156,642	154,217	\$8,250,891
Total CYTD Cumulative	50,218 782,806	3,808 23,737	0 58	9,573 187,417	17,972	23,373 184,549		103,319	\$5,579,069 \$68,487,146
		23,131	58	101,411	203,549	104,049	1,382,115	1,360,642	\$68,487,146
In Kind Trans Transferred	ners T						Month 116	FYTD 147,917	CYTD Cumulative 101,355 1,307,855
Volume outstanding							52,862	147,917	101,300 1,307,855
						ļ			

^{*} Volumes in Mcf at 14.7 psia & 70°F

⁺ Volumes in Mcf at 14.65 psia & 60°F

\$26,341,200

\$113,461,800

Award Volume* Outstanding* Sales* Charges Billed (\$)** **Conservation Helium** Air Liquide America, L.P. (billed quarterly) Month 0 0 0 FYTD 0 0 0 \$0 Cumulative 50,000 50,000 \$2,625,000 Air Products, L.P. Month \$0 0 0 0 FYTD 0 0 0 \$0 Cumulative 680,400 680,400 \$35,721,000 **BOC Gases** Month 0 0 0 FYTD 550,000 137,500 412,500 \$22,275,000 1,384,000 1,246,500 \$66,060,000 Cumulative Keyes Helium Co. Month 0 \$0 FYTD 75,600 18,900 56,700 \$3,061,800 Cumulative 151,200 132,300 \$7,030,800 AGA Gas, Inc. Month 0 0 \$0 FYTD 37,500 50,000 12,500 \$2,025,000 Cumulative 50,000 37,500 \$2,025,000 Total month 0 0 0 **Total FYTD** 675,600 168,900 506,700 \$27,361,800

2,315,600

Open Market Transfers

Transferred
Volume outstanding

Total CYTD

Cumulative

Month	FYTD	CYTD	Cumulative
0	916,700	506,700	2,146,700
0			

487,800

2,146,700

^{*} Volumes in Mcf at 14.65 psia & 60°F

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	\$/unit	Charges	Billed (\$)**					
Natural Gas/L	latural Gas/Liquids Sales										
El Paso Natural Gas Provides Firm/Interruptible natural gas transportation services											
Month	269,736		297,103	(\$0.0924)	(\$27,460)						
FYTD	2,263,112		2,499,603	(\$0.1099)	(\$274,601)						
Cumulative	3,454,533		3,821,951	(\$0.1150)	(\$439,362)						
Minerals Management Service Provides natural gas marketing services under a Cooperative Agreement											
Month				\$0.0000	\$0						
FYTD				\$0.0000	\$0						
Cumulative				(\$0.0036)	(\$12,448)						
Cenergy Marketing											
Month	269,736	0	299,000	\$5.589783	\$1,663,985						
FYTD	2,298,664	0	2,554,987	\$5.232624	\$13,290,939						
Cumulative	3,534,663	0	3,831,861	\$5.159010	\$19,660,227						
Seminole Transpor	rtation & Gathering										
Month	0	83,832	8,945	\$7.784256	\$69,630						
FYTD	0	535,779	56,729	\$6.909798	\$391,986						
Cumulative	0	535,779	56,729	\$6.909798	\$391,986						
Total month	269,736	83,832	307,945	\$5.564354	-	\$1,706,155					
Total FYTD	2,298,664	535,779	2,611,716	\$5.163911		\$13,408,324					
Total CYTD	1,807,534	486,569	2,037,986	\$5.326751		\$10,790,948					
Cumulative	3,534,663	535,779	3,888,590	\$5.068363		\$19,600,403					

^{***} Volumes in Mcf at 14.73 psia & 60°F

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$637,889	\$6,461,044
Natural Gas Royalties (1)	\$3,025	\$31,651
Natural Gas Rentals	\$1,280	\$1,280
Other	\$7,139	\$50,810
Revenue Collected from Federal Lease Holds	\$643,191	\$6,501,184

^{*}Totals do not sum

Helium Analysis and Evaulation	Month	FYTD
Number of Sample Request Letters Sent	35	91
Number of Samples Received	0	24
Number of Samples Analyzed	2	42
Total Number of Samples Analyzed For Resources Division	4	74
Total Number of Samples Analyzed (2)	81	902

U. S. Helium Production

Domestic	CY Volumes
1998 Helium Sold	4,029,755
1999 Helium Sold	4,203,019
2000 Helium Sold	4,564,589
2001 Helium Sold	4,756,719
2002 Helium Sold	4,584,904
2003 Helium Sold	4,399,944
2004 Helium Sold (projected)	4,500,000
Estimated Helium Resources (as of 01/01/2003)	305,000,000

		FY-2003	CY-2003
U.S. Helium Exports	(3)	1,457,623	1,487,258

- (1) Includes drip gas sales & other miscellaneous gas sales.
- (2) Includes pipeline, field survey, and other requested analyses.
- (3) Data from Department of Commerce Bureau of the Census.

Table 4 - Federal Acquisition & Storage Operations

All Volumes in Mcf at 14.65 psia & 60°F

7 til Volaines in Morat 1	pola a c									
		Month		Month	FYTD	Month	FYTD	FYTD	CYTD	Cumulative
	Helium-Gas	Helium		Low Pu		Below				· I
	Mixture	Percent	Helium	Heliun	•		ium		ontained He	iium
Purchased			1					1		
Cities Service Helex - Jayhawk					1					6,403,147
National Helium Corp Liberal										11,561,830
Nothern Helex Co Bushton					ļ					4,475,921
Phillips Petroleum - Dumas					ļ					5,111,036
Phillips Petroleum - Sherman					ļ					4,624,211
Total purchased										32,176,145
Purchased helium produced/trans	ferred		116					1,064,617	608,055	5,439,895
Balance of purchased helium in st								1,001,011	000,000	26,736,250
Bureau Plants	orago									20,100,200
Delivery/Handling Credit	0		0					0		13,205,259
Withdrawal	0		0					0		7,540,255
	•							•		
Private Plants										
Helium accepted under terminate		,								16,453,073
Helium redelivered under termina	ted contracts (pi	re-FY96)								13,007,062
Pioneer - Fain*										
GPM - Dumas*										1
Crescendo - Sunray*										Λ
Air Products - Guymon*									2	()
GPM - Sherhan*								/		
GPM to APG+								· `		
Total GPM - Sherhan								(/		\sim
Keyes Helium - Sturgis* ^							53	r//)>		
Keyes Helium - Sturgis* ^										
Total Keyes Helium - Sturgis* ^							\-\	<u>ٽ</u> ــــــــــــــــــــــــــــــــــــ		
Pioneer - Satanta*						h (//		Ĭ		
Williams - Baker*						4// <-	/	ļ		
National Helium - Liberal*					4					
National to APL+										
Total National Helium - Liberal					//	}				
Air Products - Liberal*				\)					
Praxair - Jayhawk* ^ Praxair - Jayhawk* ^										
Total Praxair - Jayhawk* ^										
Amoco to Praxair+			<u></u>	//				l		
CIG - Lakin*										
BOC Gases - Otis* ^										
KN Processing - Bushton*		/								
KNP to Praxair+										
Total KN Processing - Bushton										
Praxair - Bushton*		×								
Plant Inactive										
Accepted in storage system	67,461	69.8%	47,086	763	11,472	(48)	(2,265)	608,518	410,073	8,412,745
Redelivered from storage system	(296,711)	75.1%	(222,754)		ļ	24	551	(1,670,944)	(1,196,168	3) (13,283,322)
Total apparent artido producedo	165 965	72 20/	110 027	1	l.			1 225 226	011 47	0 500 467

- * Denotes CUSTODY TRANSFER activity in to or out of the crude helium pipeline system
- + Denotes activity between private plants that does not enter the crude helium pipeline system

72.3%

74.8%

119,937

(295,605)

^ Other sources of helium are accessed by helium refiners, but data are not available to BLM

Acquisition & Storage Summary - Contained Helium

165,865

(395,115)

Total apparent crude produced^

Total apparent crude refined^

	Month	FYTD	Cumulative
Total acquisition	47,086	608,518	70,247,222
Total disposition	222,754	1,670,944	42,760,711
Total stored in conservation system	(175,668)	(1,062,426)	27,486,511

1,325,226

911,471

(2,388,600) (1,698,513) (13,928,955

8,502,467

Helium in pipeline system plus apparent losses	(1,437,833)
Helium in underground storage	28,924,344

i	Metered Gas					Transferred Gas		Stored	Charges Billed		
	Gross Gas F	Jolium %	Helium	eu Gas	Helium				Helium		\$)**
		Month	i i c iiuiii	FYTD CYTD Cumulative		Helium Month Cumulative		EOM	Month	FYTD	
Total All Contra				יווט	טווט	Jamalative	IVIOLIUI	Janualive	LOIVI	IVIOLIUI	
Crude Acquired	67,370	69.8%	47,038	606,253	408,652	25,781,261	49,455	28,777,646			
Crude Disposed	296,711	75.1%	222,730	1,670,393	1,195,622	25,108,151	49,339	25,965,504		\$308,540	Storage Fees
Grade-A Rdlvrd	0	70.170	0	0	0	1,478,718	10,000	20,000,001		\$145,479	RMF Fees
Net/Balance	(229,341)		(175,692)	(1,064,140)	(786,970)		116	2,812,142	2,006,534	\$454,020	\$3,792,635
Total Prior Cont		INATED)	(- / - /	. , , - , - ,	(= = /= = /	(,,		7- 7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·	
Crude Acquired	`	,		0	0	17,406,129	0	18,196,898			
Crude Disposed				0	0	11,830,863	0	19,148,768			
Grade-A Rdlvrd				0	0	1,478,718		1			
Number of trailers				0	0	9,834			0		
BOC Gases, Co	ntract no. 199	95-3249						_	•		
Crude Acquired											
Crude Disposed								Į			
Net/Balance											
Praxair, Inc., Co	ntract no. 199	95-3251				months - pro	jected depl	etion			
Crude Acquired											
Crude Disposed								Ļ			
Net/Balance		1005.0								\sim	
Air Products, L.	P., Contract r	10. 1995-3	256								
Crude Acquired Crude Disposed											
Net/Balance								ļ.			
Oneok Field Ser	wiege Contro	ot no. 100	NE 2250								
Crude Acquired	vices, Contra	act no. 198	93-3236					$\rightarrow \rightarrow $	/// //		
Crude Disposed											
Net/Balance										li li	
ExxonMobil Gas	Marketing C	Contra	ct no. 190	25-3280					<u> </u>		
Crude Acquired	s warketing c	o., contra	ict no. 13	33-3200							
Crude Disposed						^					
Net/Balance										li	
Pioneer, Contra	ct no. 1995-32	286					\neg		<u> </u>	<u> </u>	
Crude Acquired											
Crude Disposed						$\mathcal{A}(\mathcal{A})$					
Net/Balance						/ /		ĺ		Ī	
Keyes Helium C	o., Contract r	no. 1995-3	287						-1	<u> </u>	
Crude Acquired											
Crude Disposed						\				_	
Net/Balance					′ ())					
Messer Grieshe	im Ind., Conti	ract no. 19	98-3283			months - pro	jected depl	etion	•	-	
Crude Acquired											
Crude Disposed								Ļ			
Net/Balance			((
Linde Gas LLC,	Contract no.	2001-3282	2	\longrightarrow / \bot							
Crude Acquired		\sim									
Crude Disposed	_							Ļ		Г	
Net/Balance			00000								
Mitsui & Co. (U.	S.A.), J., Co	ract no.	2-328	9							
Crude Acquired											
Crude Disposed Net/Balance								i i		li	
Air Liquide Ame	rica	ntract no.	2002-330	1							
Crude Acquired	titea, L	muaci IIO.	2003-328	7							
Crude Acquired Crude Disposed											
Net/Balance	•							İ		Ī	
Government He	lium										
Crude Acquired						I	0	32,176,145	1		
·	In Kind Sales										
•	Open Market/R	oconyo Call	down				116 0				
Net/Balance	Open warket/R	eserve Sell	uown				U	5,439,895 [00.700.050		
INEV Data I ICE									26,736,250		

All Volumes in Mcf at 14.65 psia & 60°F

					Since S	Start of	Si	nce
	Mo	onth Fiscal		Year Conservation		n Program	Field D	iscovery
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
Conservation Pipeline								
Beginning of period inventory (1)	39,135	28,287	46,638	32,039	0	0	1	
Measured to pipeline (2)	299,084	228,854	2,533,610	1,834,592	113,409,562	81,017,202		
Measured from pipeline (3)	296,711	222,754	2,344,695	1,670,944	47,550,209	33,865,997		
Measured into Bush Dome (4)	792	622	184,919	143,045	64,541,927	46,380,581		
Calculated inventory (1+2-3-4)	40,716	33,765	50,633	52,643	1,317,427	770,624		
End of period inventory	46,175	35,002	46,175	35,002	46,175	35,002		
Line gain or (loss)	5,459	1,238	(4,458)	(17,640)	(1,271,251)	(735,622)		
Percent gain (loss) of total measured	0.915%	0.274%	-0.088%	-0.483%	-0.564%	-0.456%		
Bush Dome Reservoir Ope	rations							
Conservation gases from all source	es							
In underground storage, beg. of period	40,383,148	29,099,414	41,328,824	29,775,145	490,620	490,620	0	0
Injected during period to date	792	622	184,919	143,045	64,537,785	46,377,235	65,145,685	46,985,135
Withdrawn during period to date	235,295	175,692	1,365,098	993,846	24,925,909	17,989,660	25,043,189	18,106,940
Helium from Exell-Soncy	0	0	0	0	46,149	46,149	46,149	46,149
Total in underground storage	40,148,645	28,924,344	40,148,645	28,924,344	40,148,645	28,924,344	40,148,645	28,924,344
Native Gas								
Total in place, beg. of period	202,733,459	1	206,235,982		265,724,755		318,727,000	
Recoverable in place, beg. of period	193,682,459		197,184,982		256,673,755		309,676,000	
Production during period to date	414,525		3,917,047		63,405,820		116,408,065	
Total in place, end of month	202,318,935		202,318,935		202,318,935		202,318,935	
Recoverable in place, end of month	193,267,935		193,267,935		193,267,935		193,267,935	
Native Gas plus Conservation Gas	ses							
Total gases in place, beg. of period	243,116,607		247,564,806		266,215,375		318,727,000	
Total gases in place, end of month	242,467,579		242,467,579		242,467,579		242,467,579	
Change during period	(649,028)		(5,097,226)		(23,747,796)		(76,259,421)	
	204.0		200.0		005.0		2444	
Ave. reservoir pressure, beg. of period	621.3		636.3		685.0		814.1	
Tuck Trigg Reservoir Oper	ations							
Native Gas					Ī			
Total in place, beg. of period	5,198,688		5,198,688				5,890,000	
Recoverable in place, beg. of period	4,528,688		4,528,688				5,220,000	
Production during period to date	0		0				691,312	
Total in place, end of month	5,198,688		5,198,688				5,198,688	
Recoverable in place, end of month	4,528,688	I	4,528,688				4,528,688	
Ave. reservoir pressure, beg. of period	483.7		483.7				548.0	
Natural Gas Sales - Booste	er Compre	ssor Ope	erations			To	tals	Cuma ulationa
Field/HEU Compressor Operations	_	•				Month	FYTD	Cumulative
Spot gas fuel price					\$ per/MMBTU	\$5.59	\$4.82	\$4.39
Fuel used					total MMBTU	9,219	69,288	180,120
Field compressor fuel revenue					\$dollars	\$5,515	\$55,695	\$410,134
HEU compressor fuel credit					\$dollars	\$31,171	\$149,499	\$201,596
#1 Compressor run time					hours	256	1917	15,403
#2 Compressor run time					hours	438	2882	8,453
#3 Compressor run time					hours	497	2969	
Field Compressor Charges	Ch	arges Billec	I (\$)*					
BOC Gases, Contract no. 1995-3249								
Praxair, Inc., Contract no. 1995-3251								
Air Products, L.P., Contract no. 1995-								
Keyes Helium Co., Contract no. 1995-	-3287							
SubTotal - Cliffside Refiners, LP			ster compression	,		(\$56,089)	(\$603,375)	(\$3,312,993)
Cliffside Refiners, LP, GDA010003		(BLM provide	I provided fuel, labor, supplies, etc.)			<u>\$12,292</u>	<u>\$162,224</u>	<u>\$778,717</u>
Net Total - Cliffside Refiners, LP						(\$43,796)		
						* F	Counded to n	narnet dallar

*Rounded to nearest dollar

Table 6 - Helium Enrichment Unit Operations

All Volumes in Mcf at 14.65 psia & 60°F (*except where noted)

		Month		FYTD		Cumulative			
	Helium-Gas Helium			Helium-Gas	Helium		Helium-Gas	Helium	
	Mixture	Percent	Helium	Mixture	Percent	Helium	Mixture	Percent	Helium
Gas Processed									
Plant feed	614,998	25.7%	157,748	4,810,029	19.9%	957,761	7,571,743	17.3%	1,310,624
Helium product	196,802	79.1%	155,767	1,189,860	77.7%	924,600	1,616,077	77.2%	1,247,120
Residue natural gas	277,546	0.1%	230	2,312,842	0.0%	654	3,842,487	0.0%	664
Vent, flare & plant losses	129,688	1.3%	1,750	1,285,156	2.5%	32,711	2,410,903	2.6%	63,044
Helium recovery efficiency			98.9%			96.6%			95.2%

	Month			FYTD			Cumulative		
	Volume*	KWh	Runtime	Volume*	KWh	Runtime	Volume*	KWh	Runtime
Natural gas liquids (*gallons)	86,897			546,464			546,464		
Utility Usage									
K100 compressor		475,625	744		4,206,097	6,151		9,162,658	10,139
K600 compressor		1,661,971	742		12,614,087	5,666		20,292,566	9,174
K610 compressor			742			5,468			8,404
Dew point control system			736		116,557	5,002		116,557	5,002
Other electrical usage		(2,137,596)			(106,261)	7,320		2,189,423	12,160
Fuel gas (*Mcf)	2,410			27,212			47,919		
Water (*gallons)	3,630			34,647			48,937		

HEU Runtime & Charges	Month		FY	TD	Cumulative	
Enrichment Unit Runtime	Runtime	Percent	Runtime	Percent	Runtime	Percent
Processing feed gas	744	100.0%	6,151	84.0%	10,139	83.4%
Producing natural gas liquids	736	99.0%	5,002	68.3%	5,002	41.1%
Producing helium product	742	99.7%	5,468	74.7%	8,404	69.1%
Producing residue gas	742	99.8%	5,666	77.4%	9,174	75.4%

Enrichment Unit Charges		Charges Billed (\$)*							
Reservior Management Fees (RMF)		\$145,479		\$846,784		\$1,418,953			
Total operating costs		(\$671,776)		(\$8,209,734)		(\$13,201,831)			
Labor	\$32,270		\$346,513		\$796,502				
Compressor fuel	\$26,620		\$152,200		\$178,789				
HEU fuel	\$16,062		\$139,446		\$196,854				
Electric power	\$120,446		\$1,037,314		\$1,351,995				
Other	\$17,250		\$172,500		\$276,000				
Sub Total - Items provided by BLM		\$212,649		\$3,618,464		\$5,911,797			
Total - Cliffside Refiners, LP, GDA030001		(\$459.127)		(\$4.591.270)		(\$7,290,034)			

*Rounded to nearest dollar